

The infrared spectrum of polyacetylene displays several characteristic absorption bands. A sharp peak is observed at approximately 3300 cm⁻¹, corresponding to the C-H stretching vibration. A very strong, sharp peak at approximately 2100 cm⁻¹ is characteristic of the C≡C stretching vibration. The region between 1600 and 1400 cm⁻¹ shows multiple peaks, including a prominent one at approximately 1500 cm⁻¹, which are associated with C=C stretching and in-plane C-H bending vibrations. The fingerprint region from 1300 to 600 cm⁻¹ contains numerous sharp peaks, with notable ones at approximately 1100, 1000, and 800 cm⁻¹, representing various out-of-plane C-H bending and C-C stretching modes.

Fig. 1

TOP OF SECTION

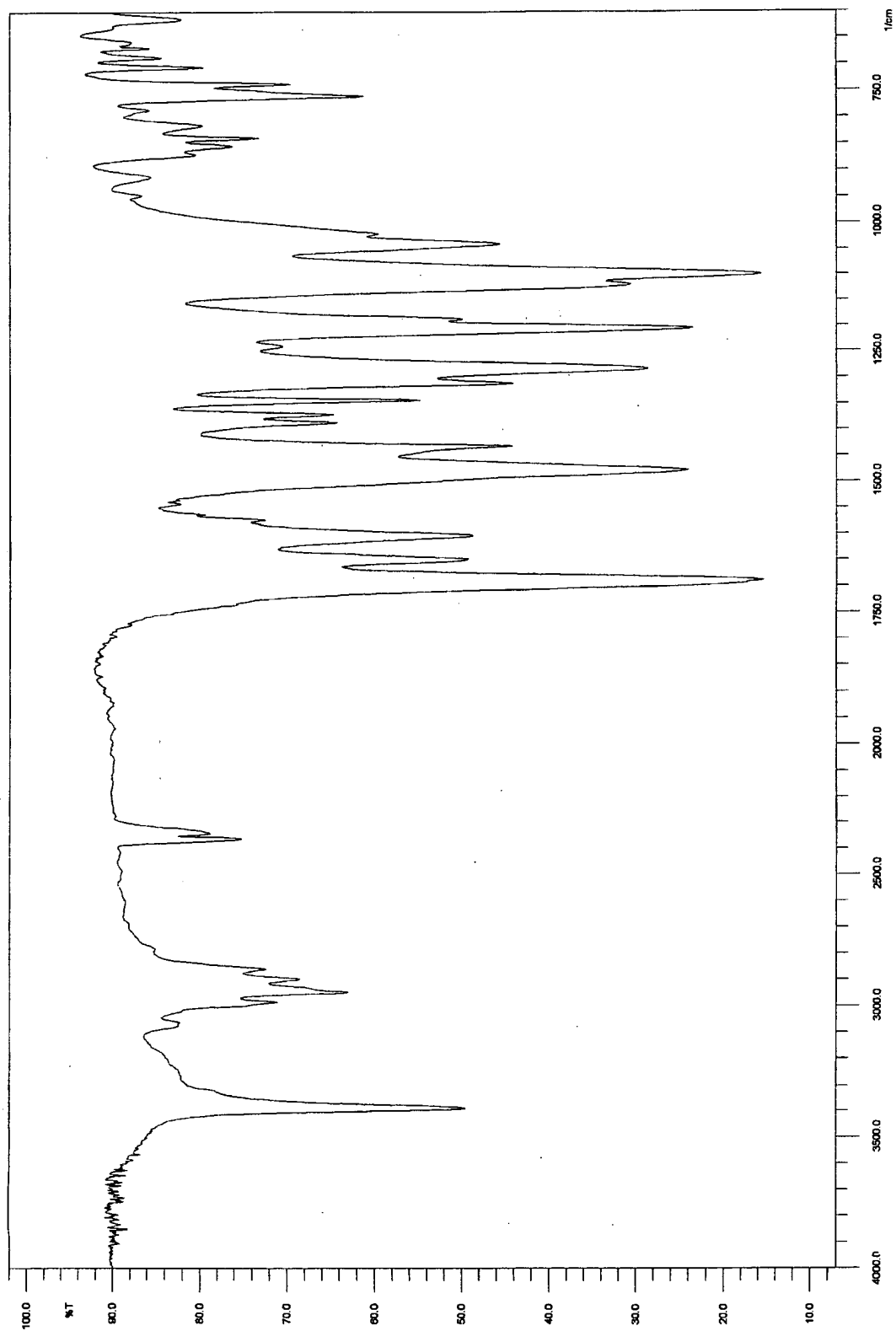


Fig. 2

TOP SECRET

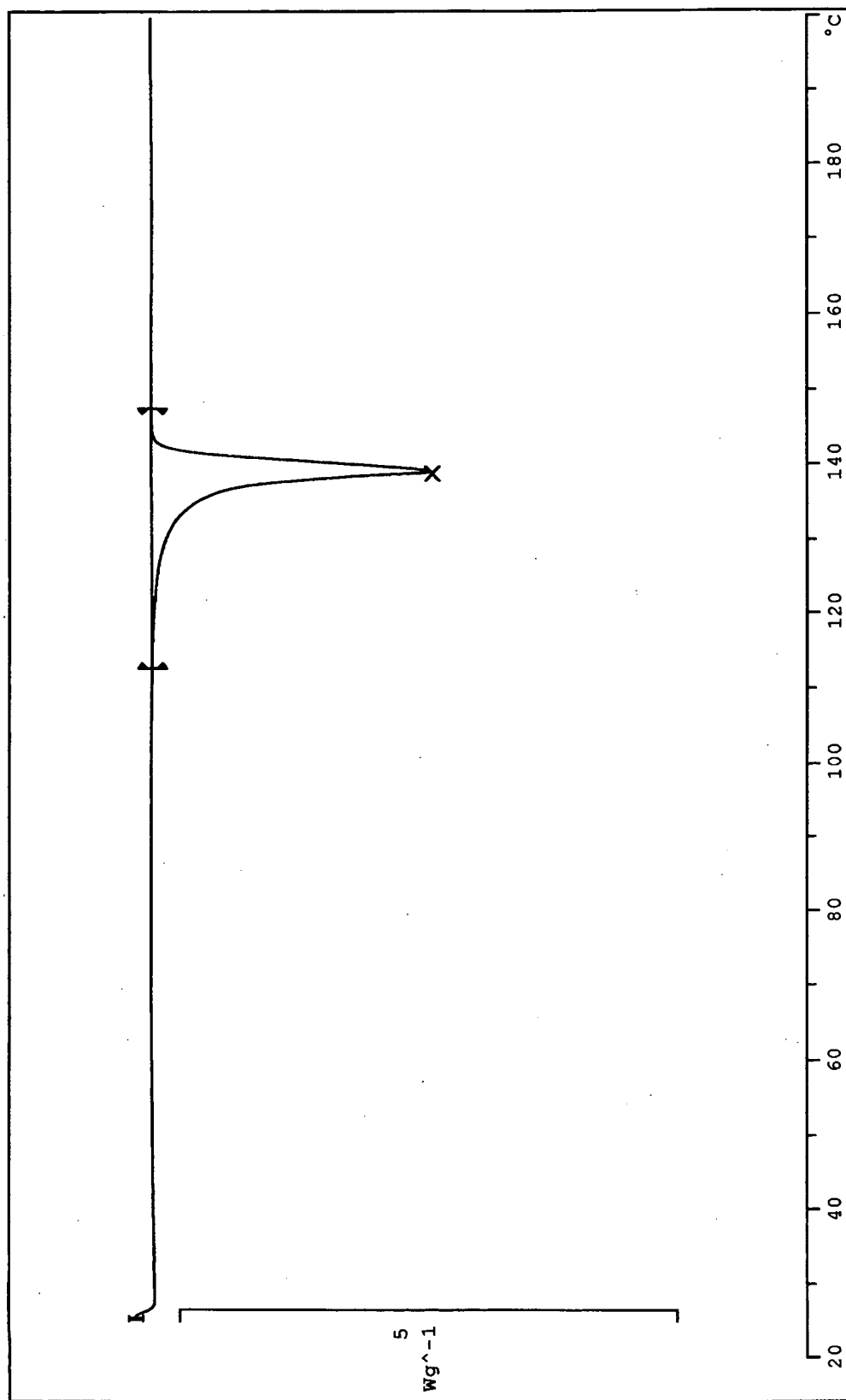


Fig. 3

COPIES OF THE ORIGINAL

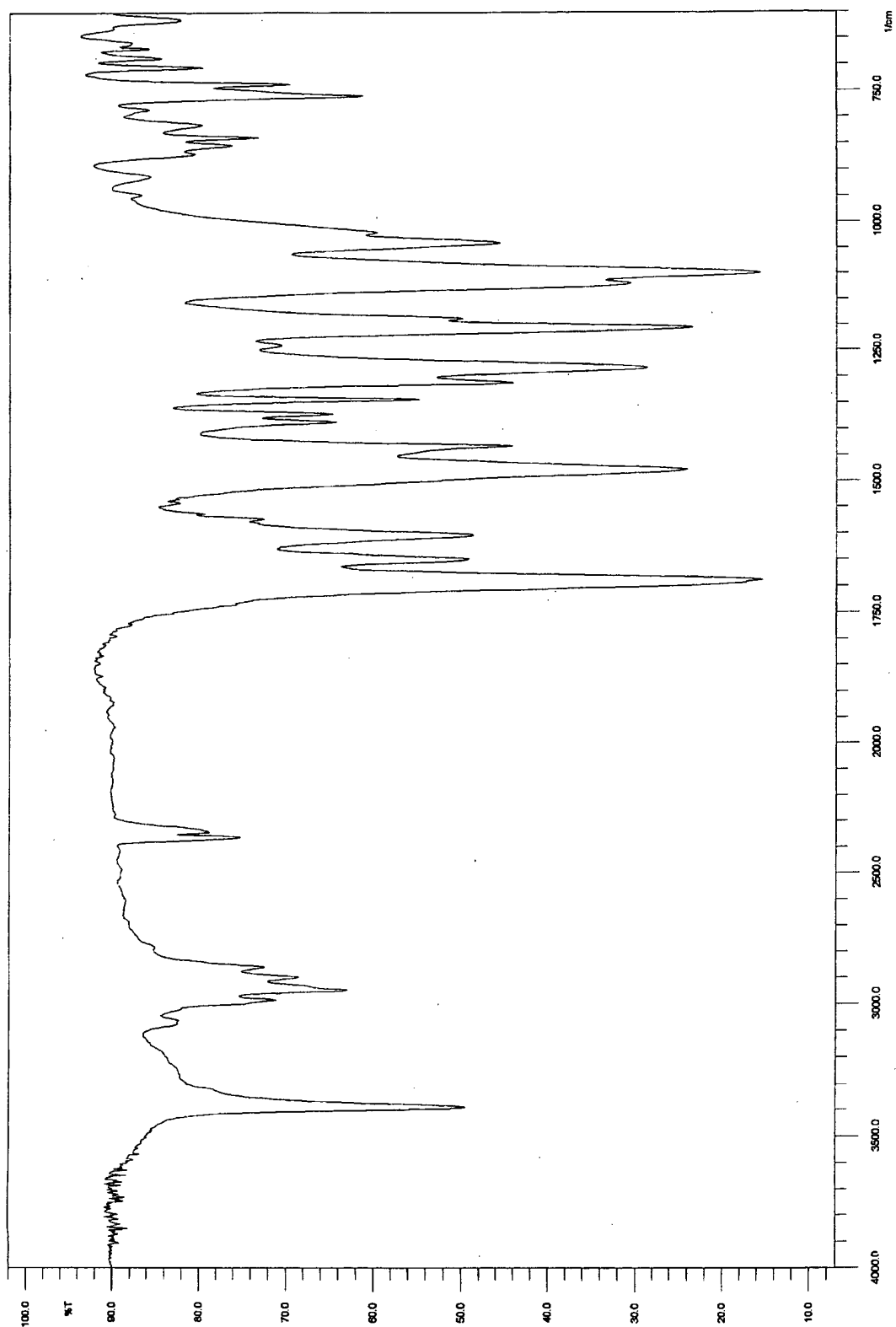


Fig. 4

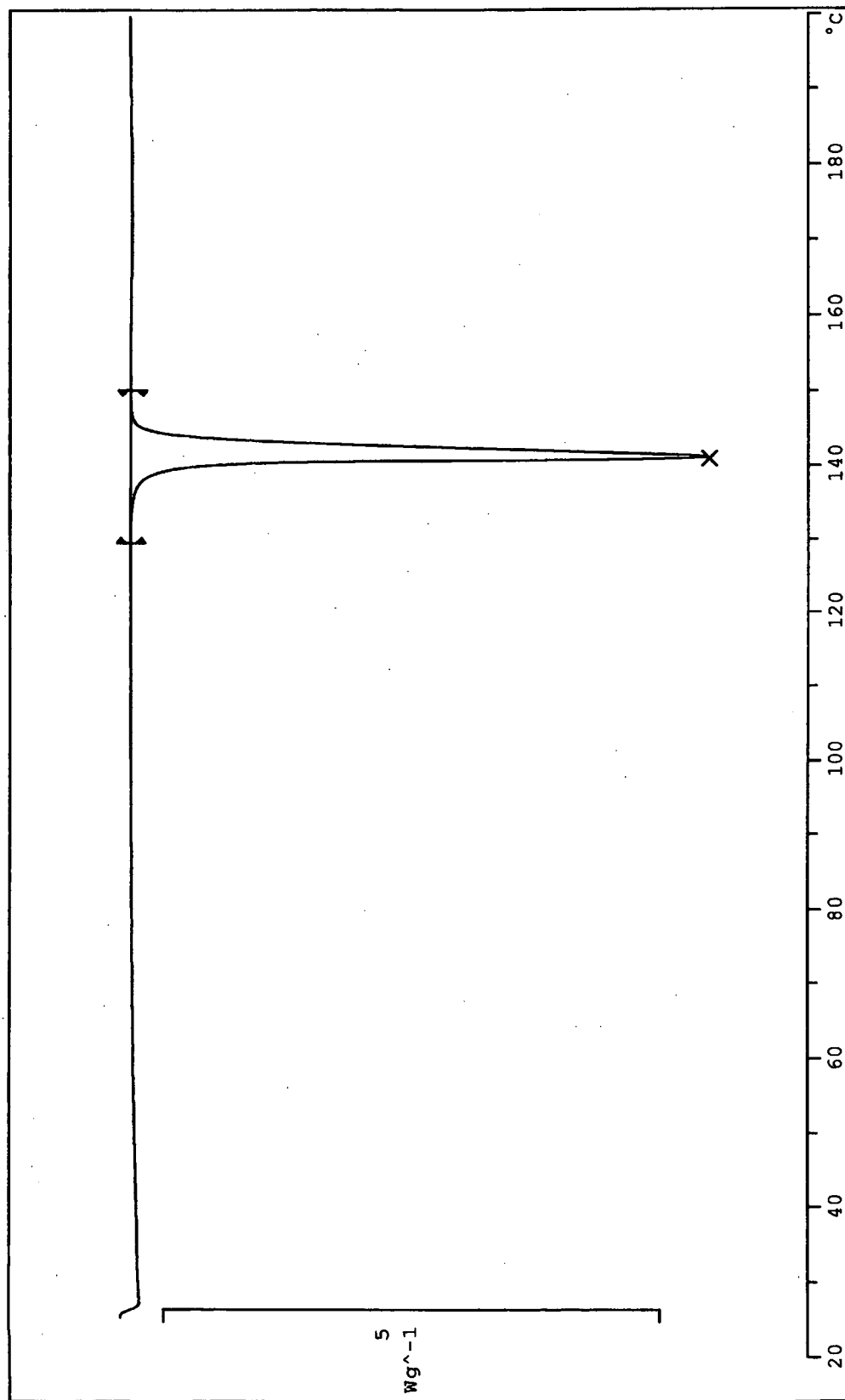


Fig. 5

IR Spectrum of 2,4,6-Trichlorophenol

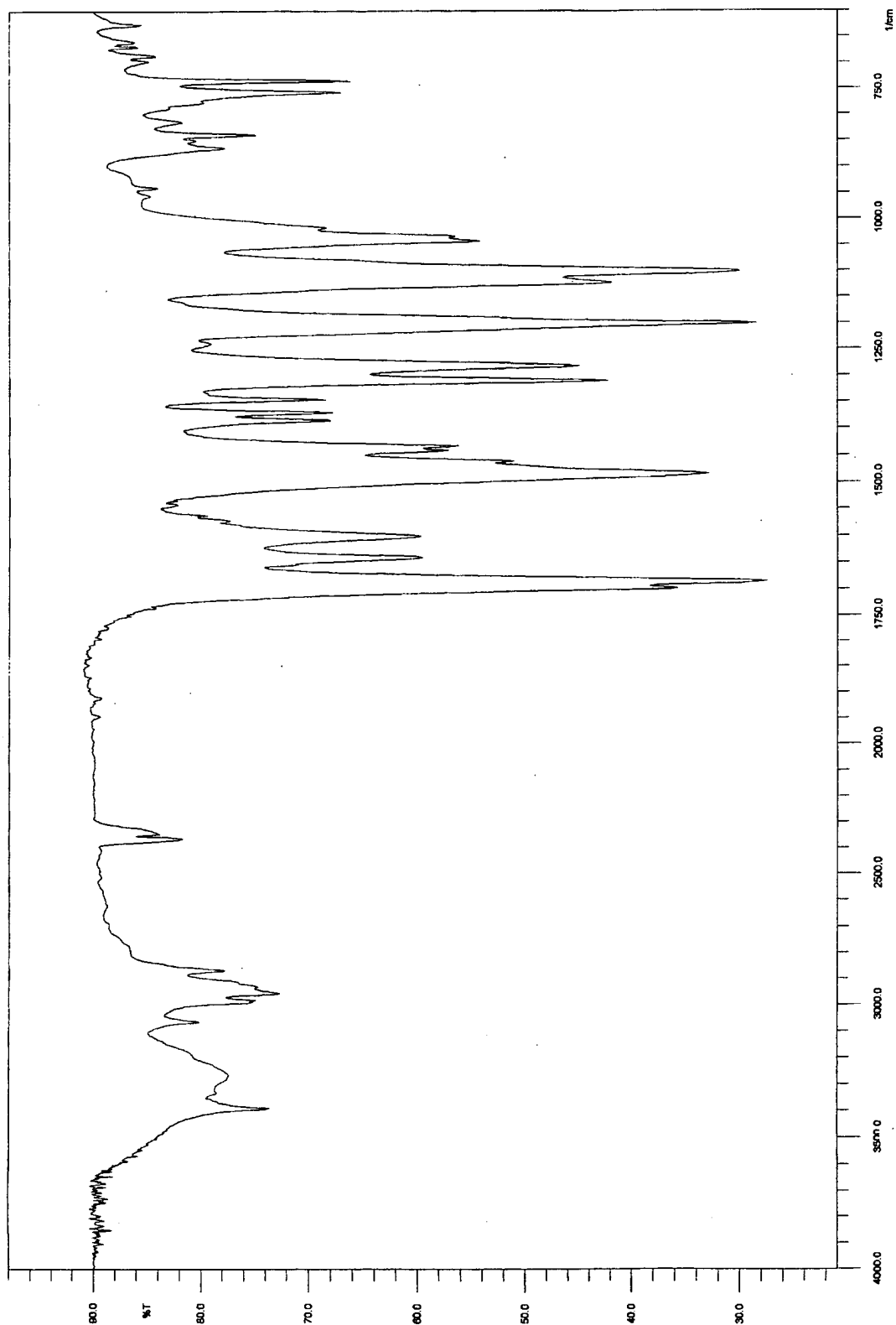


Fig. 6

Fig. 7. The temperature dependence of the dielectric loss factor ϵ'' for the sample 100-100-100.

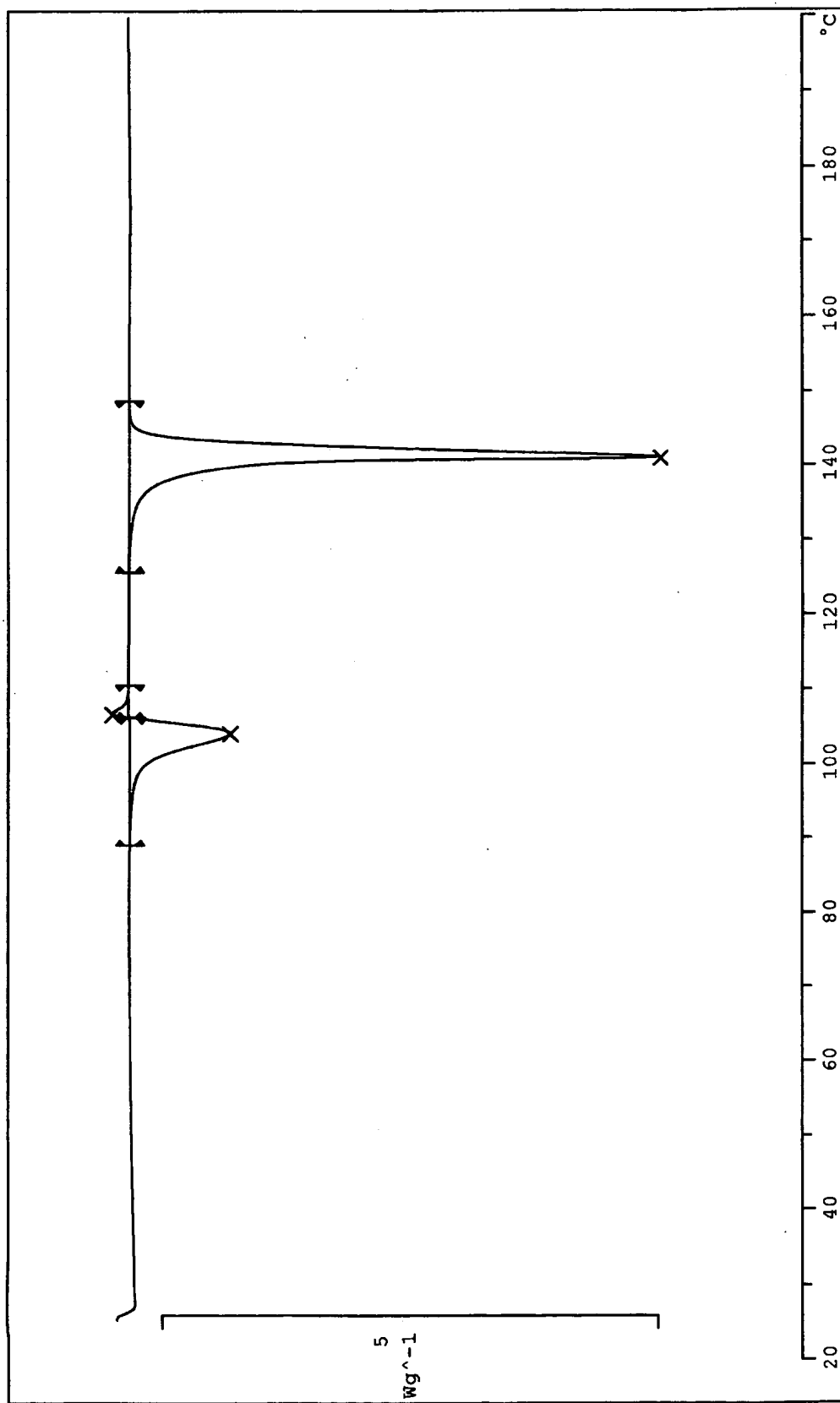


Fig. 7

TOP OF CATHODE

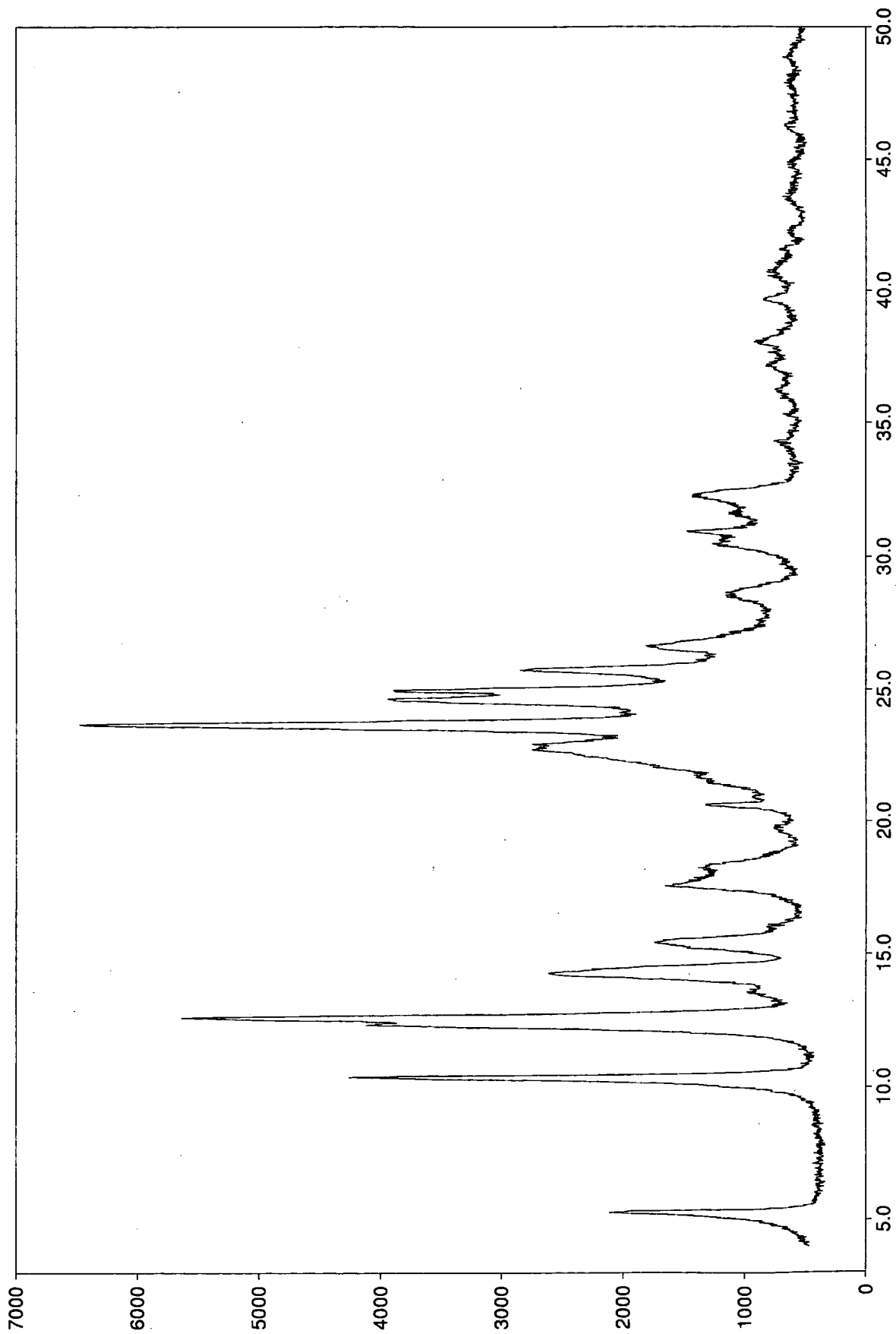


Fig. 8